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## A multi-tier RAID storage system with RAID1 and RAID5

Muppalaneni, N. Gopinath, K.  
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This paper appears in: **Parallel and Distributed Processing Symposium, 2000. IPDPS 2000. Proceedings. 14th International**

Publication Date: 2000

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Meeting Date: 05/01/2000 - 05/05/2000

Location: Cancun, Mexico

ISBN: 0-7695-0574-0

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DOI: 10.1109/IPDPS.2000.846051

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### Abstract

Redundant Arrays of Inexpensive Disks (RAID) is a popular technique used to improve the reliability and performance of secondary storage. Of various levels of RAID discussed, RAID1 and RAID5 have become more popular. Mirroring or RAID1 maintains multiple copies of the data, generally provides best performance and is easier to configure. Rotating parity scheme or RAID5 is the least expensive RAID scheme with good large update performance. It suffers from poor small update performance and performance drops sharply when a disk fails and the array enters degraded mode. Configuring RAID5 is more involved. This paper presents the design and implementation of a host-based driver for a multi-tier RAID storage system, currently with 2 tiers: a small RAID1 tier and a larger RAID5 tier. Based on access patterns, the driver automatically migrates frequently accessed data to RAID1 while demoting not so frequently accessed data to RAID5. The prototype provides reliable persistence semantics for data migration between the tiers using ordered update. Mechanisms are separated from policies through an API so that any desired policy can be implemented in trusted user processes. Finally, we present comparison of the performance of our system with comparable systems using striping and RAID5.

### Index Terms

#### Inspec

##### Controlled Indexing

RAID performance evaluation

##### Non-controlled Indexing

RAID storage system RAID1 RAID5 Redundant Arrays of Inexpensive Disks multi-tier RAID storage system secondary storage trusted user processes

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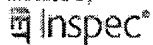
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S5	99	S2 (7N) (SYNCHRON? OR SYNCH??? OR SEQUEN? OR SEQUENTIAL? OR SERIE?? OR SERIAL?? OR IN () ORDER? OR CONTIGU? OR CONSECUT? OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE () AFTER (2W) (OTHER OR ANOTHER) OR LOGIC?)
S6	63	S2 (7N) (REAL () TIME OR REALTIME OR LIVE OR IMMEDIAT? OR INSTANT? OR STREAM??? OR UP (3W) (MINUTE? OR SECOND? OR MOMENT?))
S7	43	S6 AND S3
S8	11	S7 AND RECOVER?
S9	189603	(STORE? ? OR STORING OR SAVE? ? OR ACCUMULAT? OR CACHE? OR CACHING?? OR STOCK? OR MEMOR? OR SAVING) (5N) (MUTUAL? OR BOTH - OR EACH OR JOINT??? OR TOGETHER)
S10	11030	S1 AND S9 AND S3
S11	564207	BACKUP? OR BACK??? () UP? ? OR COPY??? OR COPIES OR COPIED OR REPLICA? OR MIRROR?
S12	15474	S11 (7N) (SYNCHRON? OR SYNCH??? OR SEQUEN? OR SEQUENTIAL? OR SERIE?? OR SERIAL?? OR IN () ORDER? OR CONTIGU? OR CONSECUT? - OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE () AFTER (2W) (OTHER - OR ANOTHER) OR LOGIC?)
S13	987	S10 AND S11:S12
S14	79	S13 AND S12
S15	78	S14 NOT S8
S16	10	S15 AND RECOVER?
S17	68	S15 NOT S16
S18	111	S7 OR S17
S19	111	S18 AND S11
S20	72	S19 AND S12
S21	69	S20 AND S9
S22	72	S20:S21
S23	71	S22 NOT (S8 OR S16)
S24	61	S23 NOT (PR>2003 OR PR=2004:2007)
S25	6	S24 AND (SYNCHRON? AND SYNCH?)
S26	55	S24 NOT S25

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Set	Items	Description
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S2	2822445	STORE? ? OR STORING OR SAVE? ? OR ACCUMULAT? OR CACHE? OR - CACHING?? OR STOCK? OR MEMOR? OR SAVING
S3	142941	S1:S2(7N) (SYNCHRON? OR SYNCH??? OR SEQUEN? OR SEQUENTIAL? - OR SERIE?? OR SERIAL?? OR IN()ORDER? OR CONTIGU? OR CONSECUT? OR SERIAT? OR STEPWISE? OR CONSECUT? OR ONE()AFTER(2W) (OTHER OR ANOTHER) OR LOGIC?)
S4	1655	S3(7N) (REAL()TIME OR REALTIME OR LIVE OR IMMEDIAT? OR INSTANT? OR STREAM??? OR UP(3W) (MINUTE? OR SECOND? OR MOMENT?))
S5	113284	(ONE OR FIRST? OR 1ST OR PRIMARY OR INITIAL? OR ORIGINAL? - OR LEADOFF? OR MAIN OR CHIEF OR INTRODUCTORY? OR LOCAL?) (2W) (-STORAG? OR CACHE? OR MEMOR? OR CLUSTER?)
S6	105487	(SECOND OR SECONDARY OR COUPLE OR 2ND OR TWICE OR ANOTHER? OR TWIN OR TWO OR DIFFERENT OR PAIR OR MORE(2N)ONE OR ADDITIONAL OR 2 OR REMOTE?) (2W) (STORAG? OR CACHE? OR MEMOR? OR CLUSTER?)
S7	11756	S5(7N) (MUTUAL? OR BOTH OR EACH OR JOINT??? OR TOGETHER)
S8	14681	S5(7N) (CONNECT? OR LINK??? OR PARTNER? OR COUPL? OR JOIN??? ? OR ATTACH?)
S9	26	S4 AND S7 AND S6

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the data are also locally protected by **RAID**. The down side of **synchronous remote** mirroring is. that it can add a lot of latency to I/O **write** operations. ...

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### Online Service provides data backup and recovery., Genie-Soft

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[taint.org: Justin Mason's Weblog » Product idea: RAID](#)

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### Computer storage devices: Information from Answers.com

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According to the agreements, Adaptec will supply **RAID** products to IBM for its ... Dantz Retrospect **Backup** v5.0 supports more **storage devices** than any other ...

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**storage devices** can also vary (e.g., IBM tape libraries, STK silos, ...  
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### **Lead Story - Novell Disaster Recovery and Business Continuity ...**

The answer is easy: With business continuity and **disaster recovery** solutions ... from their local **storage device** should the main data center be affected. ...  
www.novell.com/news/leadstories/**2002**/apr24/ - 31k - [Cached](#) - [Similar pages](#)

### **Disaster recovery system ensures 100% uptime - Trends ...**

The system uses the UltraNet **Storage** Director from CNT (www.cnt.com), ... Prior to the new **disaster-recovery** solution, employee and customer data that drove ...  
findarticles.com/p/articles/mi\_m0CMN/is\_1\_39/ai\_82350309 - 31k - [Cached](#) - [Similar pages](#)

### **News archive results for 2002 storage devices disaster recovery**



- 2002 » **Storage** trade group takes reins on bluefin proposal ... - \$6.95 - Computerworld
- 2002 » **Mainline Disaster Recovery Services Equipment ...** - \$95.00 - GARTNER GROUP'S DATAQUEST
- 2002 » **Keeping up with storage demands** - FCW.com

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**Scholarly articles for 2002 raid storage devices disaster recovery**

[Trends in PACS image storage and archive](#) - Liu - Cited by 18  
[CoStore: a reliable and highly available storage system ...](#) - Chen - Cited by 8  
[System and method for the prevention of corruption of ...](#) - Kelman - Cited by 4

**RAID Storage Solutions**

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**storage device resources on TechRepublic**

One benefit is the ability to share a single large **storage device** across many ... speed the **disaster recovery** process if a **storage device** was inaccessible, ...

[search.techrepublic.com.com/search/storage+device.html?](http://search.techrepublic.com.com/search/storage+device.html?&c=1&s=20&m=20&o=0&i=0&t=0)

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**Inexpensive Raid Solution**

Pssc Labs builds IDE & SCSI **Raid** solutions for your needs and budget  
[www.psscclabs.com](http://www.psscclabs.com)

**storage and storage device resources on TechRepublic**

All results for **storage...** and **storage device** (144 results) ... solution that would speed the **disaster recovery** process if a **storage device** was inaccessible, ...

[search.techrepublic.com.com/search/storage+and+storage+device.html?](http://search.techrepublic.com.com/search/storage+and+storage+device.html?&c=1&s=20&m=20&o=0&...)

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**DSstar: July 16, 2002: Vol. 6, No. 28**

**STORAGE ACCESS LAUNCHES DEDICATED DISASTER RECOVERY** ... And because today's **RAID** systems are consuming a significant portion of IT budgets, companies are ...  
[www.taborcommunications.com/dsstar/02/0716/020716.html](http://www.taborcommunications.com/dsstar/02/0716/020716.html) - 22k - [Cached](#) - [Similar pages](#)

**Disaster recovery -- a checklist - ZDNet UK**

Make **disaster recovery** an integral part of the way your business runs. ... whether it's a **RAID storage** system, server mirroring or even a complete duplicate ...  
[news.zdnet.co.uk/hardware/0,1000000091,2124350,00.htm](http://news.zdnet.co.uk/hardware/0,1000000091,2124350,00.htm) - 48k - [Cached](#) - [Similar pages](#)

**Business Continuity and Disaster Recovery**

Segment, 2001, **2002**, 2003, 2004, 2005, 2006. **Disaster Recovery**, 2114, 2223 ... NAS **devices** manage their **storage** intelligently on one or more servers for ...  
[www.aiim.org/article-docrep.asp?ID=29114](http://www.aiim.org/article-docrep.asp?ID=29114) - 52k - [Cached](#) - [Similar pages](#)

**Disaster Recovery in the 21st Century**

In the business world, companies are talking about **disaster recovery** like never ... Historical data are moved to off-line **storage devices**, resulting in ...  
[support.novell.com/techcenter/articles/nc2002\\_04f.html](http://support.novell.com/techcenter/articles/nc2002_04f.html) - 52k - [Cached](#) - [Similar pages](#)

**Fault-tolerant back-up archive using an ASP model for disaster ...**

Few current PACS archives feature **disaster recovery**, but the design is ... A back-up

archive server and **RAID storage device** is implemented offsite from the ...  
adsabs.harvard.edu/abs/2002SPIE.4685...89L - [Similar pages](#)

### TechExams.Net - Network+ TechNote: Fault Tolerance & Disaster Recovery

Free study guide covering the Fault Tolerance & **Disaster Recovery** exam objectives. ... In modern configuration the nodes connect to a shared **storage device** ...  
www.techexams.net/technotes/networkplus/fault\_disast.shtml - 35k -  
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### [PDF] IP Telephony Storage White Paper - PDF

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**Disaster Recovery:** Prepare for and recover from remote server failure by backing up to or ... GB+ to a locally attached SCSI **RAID storage device** to an open ...  
www.alliancesystems.com/Documents/ip\_telephony.pdf - [Similar pages](#)

### Storage UPDATE, September 16, 2002

**Storage devices** range from Just a Bunch of Disks (JBOD) to highly ... David discusses the importance of **disaster recovery** in the event of a catastrophe. ...  
www.windowsitpro.com/Article/ArticleID/26934/26934.html - [Similar pages](#)

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- 2002 » [The Technion--Israel Institute of Technology Deploys ...](#) - \$9.95 - Business Wire
- 2002 » [Storage trade group takes reins on bluefin proposal ...](#) - \$6.95 - Computerworld
- 2002 » [Disk-based backup options multiply](#) - \$9.95 - InfoStor

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- 11 Data file server for performing data-file transaction processes as a reaction to data file transaction requests by clients, uses first transaction protocol for storage of higher-authority data transaction process information**  
Inventor: MACHARDY JUN EARLE TROUNSON (US); Applicant: EMC CORP HOPKINTON (US)  
FOREST MILES ARAM DE (US)  
EC: G06F11/07P10; G06F11/14A4C IPC: G06F12/00; G06F11/07; G06F11/16 (+8)  
Publication info: DE10124482 - 2001-12-06
- 12 Data interexchange protocol**  
Inventor: SINGH MONMOHAN L (US) Applicant:  
EC: H04L29/06C5 IPC: H04L29/06; H04L29/06; (IPC1-7): G06F7/00  
Publication info: US2002152219 - 2002-10-17
- 13 Method and apparatus for automatic monitoring of simple network management protocol manageable devices**  
Inventor: COCHRAN CHARLES W (US); YORK JUSTIN E Applicant: HEWLETT PACKARD DEVELOPMENT CO (US)  
(US); (+2)  
EC: H04L12/26M IPC: H04L12/26; H04L12/24; H04L12/26 (+2)  
Publication info: US6832247 - 2004-12-14
- 14 Octet iterator template interface for protocol transfer syntax coding services**  
Inventor: OLIVER CHRISTOPHER (US) Applicant:  
EC: H04L29/06 IPC: H04L29/06; H04L29/06; (IPC1-7): G06F9/45  
Publication info: US6256778 - 2001-07-03
- 15 FAULT TOLERANT NFS SERVER SYSTEM AND MIRRORING PROTOCOL**  
Inventor: KANDASAMY DAVID R; BUTLER MITCHEL B; Applicant: AUSPEX SYSTEMS INC (US)  
(+6)  
EC: G06F11/00C; G06F11/14A4B5; (+2) IPC: G06F3/06; G06F9/46; G06F11/00 (+16)  
Publication info: WO9623259 - 1996-08-01
- 16 TRANSFER SYSTEM AND METHOD BETWEEN DIFFERENT COMMUNICATION PROTOCOL FILES**  
Inventor: BABA YASUSHI Applicant: KYUSHU NIPPON DENKI SOFTWARE  
EC: IPC: G06F13/00; G06F13/00; (IPC1-7): G06F13/00 (+1)  
Publication info: JP9091213 - 1997-04-04
- 17 PROTOCOL DATA ANALYSIS SYSTEM**  
Inventor: MINAMIZAWA HITOSHI Applicant: NEC SOFTWARE HOKKAIDO  
EC: IPC: G06F13/00; H04L29/14; G06F13/00 (+3)  
Publication info: JP4239847 - 1992-08-27
- 18 MULTI-PROTOCOL FILE TRANSFER DEVICE**  
Inventor: FUJINO HIROYUKI; OZAWA YOICHI; (+3) Applicant: NIPPON DENKI JOHO SERVICE KK  
EC: IPC: G06F12/00; G06F13/00; G06F12/00 (+3)  
Publication info: JP3078058 - 1991-04-03

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- 1 IP storage control method based on iSCSI protocol and apparatus thereof**  
Inventor: ZHOU JINGLI ZENG (CN)                      Applicant: HUAZHONG UNIV OF SCIENCE AND T (CN)  
EC:    IPC: **H04L29/06; H04L29/06**  
Publication info: **CN1753406** - 2006-03-29
- 2 Apparatus and method for improved transfer of files using an internet protocol**  
Inventor: KRIDNER JASON D (US)                      Applicant:  
EC:    IPC: **G06F15/16; G06F15/16**  
Publication info: **US2006069789** - 2006-03-30
- 3 COMMUNICATIONS SYSTEM PROVIDING EXTENSIBLE PROTOCOL TRANSLATION AND CONFIGURATION FEATURES AND RELATED METHODS**  
Inventor: CLARKE DAVID JAMES (US)                      Applicant: TEAMON SYSTEMS INC (US)  
EC:    IPC: **G06F15/16; G06F15/16; G06F15/16 (+2)**  
Publication info: **CA2533286** - 2005-03-03
- 4 Method and system for transparent encryption and authentication of file data protocols over internet protocol**  
Inventor: CHANDRASHEKHAR GANESAN (US);                      Applicant: NEOSCALE SYSTEMS INC (US)  
SAWHNEY SANJAY (US); (+3)  
EC: H04L29/06C6C2    IPC: **H04L9/00; H04L29/06; H04L9/00 (+2)**  
Publication info: **US2005033988** - 2005-02-10
- 5 MULTI-PROTOCOL STORAGE APPLIANCE THAT PROVIDES INTEGRATED SUPPORT FOR FILE AND BLOCK ACCESS PROTOCOLS**  
Inventor: PAWLOWSKI BRIAN; SRINIVASAN MOHAN;                      Applicant: NETWORK APPLIANCE INC (US)  
(+3)  
EC: G06F3/06M; G06F17/30F; (+1)    IPC: **G06F13/10; G06F3/06; G06F12/00 (+6)**  
Publication info: **WO2004015521** - 2004-02-19
- 6 LOGICAL ACCESS BLOCK PROCESSING PROTOCOL FOR TRANSPARENT SECURE FILE STORAGE**  
Inventor: PHAM DUC; NGUYEN TIEN; (+2)                      Applicant: VORMETRIC INC (US)  
EC: H04L29/06C6B    IPC: **G06F11/30; G06F15/16; G06F15/173 (+12)**  
Publication info: **WO2004010630** - 2004-01-29
- 7 ADVANCED AUDIO PROCESSING SYSTEM COMMUNICATION PROTOCOL**  
Inventor: BAEUMLE JUERGEN (DE); DUTTLINGER                      Applicant: THOMSON LICENSING SA (FR); BAEUMLE  
OLIVER (DE); (+2)    JUERGEN (DE); (+3)  
EC: G11B19/02; G11B27/10A1    IPC: **G11B19/02; G11B27/10; G11B19/02 (+3)**  
Publication info: **WO03105154** - 2003-12-18
- 8 SYSTEM UPDATE PROTOCOL AND BOOTABLE CD CONTROLLER WITH EMBEDDED OPERATING SYSTEM**  
Inventor: WU VINCENT (US); LEE SHENG (US)                      Applicant: TOKYO SHIBAURA ELECTRIC CO (JP);  
TOSHIBA TEC KK (JP); (+2)  
EC: G06F9/445E    IPC: **B41J29/38; G06F3/12; G06F9/445 (+8)**  
Publication info: **WO03100610** - 2003-12-04
- 9 Peer-to-peer file sharing system and method using user datagram protocol**  
Inventor: PEARSON CHRISTOPHER JOEL (US)                      Applicant:

EC: G06F17/30H; G06F17/30N; (+6)

IPC: **G06F17/30; H04L29/06; H04L29/08** (+7)

Publication info: **US2003028610** - 2003-02-06

- 10 Remote execution of operations on a networked computer system terminal, a communication protocol initializing mechanism is introduced into each target machine by a pre-installation machine**

Inventor: HAMARD JEAN CLAUDE; FAVRIN CLAUDE; Applicant: EVIDIAN (FR)  
(+1)

EC: G06F9/44W4

IPC: **G06F9/44; G06F9/445; G06F9/44** (+3)

Publication info: **FR2825165** - 2002-11-29

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- 1 Portable device and automatic backup method of computer data on the device**  
Inventor: LIAO CHEEN (TW); CHANG CHIA-HSU (TW); Applicant: SYNOLOGY INC (TW)  
(+4)  
EC: G06F11/14A4B1H IPC: **G06F11/14; G06F13/00; G06F11/14 (+1)**  
Publication info: **EP1746506** - 2007-01-24
- 2 ELECTRONIC DEVICE WITH AN AUTOMATIC BACKUP FUNCTION**  
Inventor: HONG CHUNG-JEN (TW); LU KUO-PING (TW) Applicant: ASUSTEK COMP INC (TW)  
EC: IPC: **G06F9/455; G06F9/455**  
Publication info: **US2007010986** - 2007-01-11
- 3 Data storage device and medium and related method of storing backup data**  
Inventor: LEE SUNG-WOO (KR) Applicant:  
EC: IPC: **G06F12/16; G06F12/16**  
Publication info: **US2007011416** - 2007-01-11
- 4 A storage system having real-time mirror backup function**  
Inventor: HAN SHIU (TW) Applicant: OMNIDIRECTIONAL CONTROL TECHNO (TW)  
EC: IPC: (IPC1-7): **G06F12/16**  
Publication info: **TW256550B** - 2006-06-11
- 5 Discovering data storage for backup**  
Inventor: HELLIKER FABRICE (GB) Applicant:  
EC: IPC: **G06F12/16; G06F12/16**  
Publication info: **US2006282631** - 2006-12-14
- 6 CRYOGENIC COOLING SYSTEM AND METHOD WITH BACKUP COLD STORAGE DEVICE**  
Inventor: STEINBACH ALBERT E (US) Applicant: GEN ELECTRIC (US)  
EC: F25D16/00 IPC: **F25B7/00; F25B7/00**  
Publication info: **US2006266054** - 2006-11-30
- 7 Portable computer and data backup method thereof**  
Inventor: TSAI HSIN-FENG (TW); CHEN CHUN-CHING (TW) Applicant:  
EC: IPC: **G06F1/00; G06F1/00**  
Publication info: **US2006259795** - 2006-11-16
- 8 Information sharing between a backup storage device and a management appliance**  
Inventor: BALLARD CURTIS C (US); FLEISCHMANN MIKE P (US); (+2) Applicant:  
EC: IPC: **G06F12/16; G06F12/16**  
Publication info: **US2006259720** - 2006-11-16
- 9 INJECTION-MOLDING BACKUP DEVICE, INJECTION-MOLDING SYSTEM AND INJECTION-MOLDING BACKUP CONTROL METHOD**  
Inventor: TAKAHASHI HIROKO; MATSUMURA NORIAKI; Applicant: MITSUBISHI HEAVY IND PLASTIC T (+3)  
EC: IPC: **B29C45/76; B29C45/76**  
Publication info: **JP2006289874** - 2006-10-26
- 10 METHOD FOR MANAGING DATA STORED IN MOBILE**

**COMMUNICATION APPARATUS, BACKUP SERVER, AND SERVICE  
DEVICE**

**Inventor:** KINOSHITA MASAFUMI; TAKAHASHI  
YASUHIRO; (+1)

**Applicant:** HITACHI LTD

**EC:**

**IPC:** *H04Q7/38; H04M1/725; H04M11/00* (+3)

**Publication info:** **JP2006287853** - 2006-10-19

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### 11 DATA BACKUP SYSTEM

Inventor: UENO HIDETOSHI (JP); KAKAMI KENTARO (JP); (+3)  
EC:

Applicant: NTT DOCOMO INC (JP); UENO HIDETOSHI (JP); (+4)  
IPC: **G06F21/24; G06F12/00; H04M3/00** (+7)

Publication info: **WO2006121077** - 2006-11-16

### 12 Backup method and storage control device using the same

Inventor: OKA NOBUYUKI (JP)  
EC:

Applicant: HITACHI LTD (JP)  
IPC: **G06F3/06; G06F11/00; H04L1/22** (+3)

Publication info: **US2006253734** - 2006-11-09

### 13 DEVICE AND METHOD FOR BACKUP EASY TO PERFORM BACKUP/RECOVERY

Inventor: SON MI AE  
EC:

Applicant: SAMSUNG ELECTRONICS CO LTD  
IPC: **G06F9/06; G06F9/06**; (IPC1-7): G06F9/06

Publication info: **KR20040069510** - 2004-08-06

### 14 DEVICE AND METHOD FOR DATA BACKUP USING SAN SWITCH

Inventor: YOON HYEONG SU  
EC:

Applicant: LGNSYS INC  
IPC: **G06F12/16; G06F12/16**; (IPC1-7): G06F12/16

Publication info: **KR20040053660** - 2004-06-24

### 15 Method and system for data processing with data backup

Inventor: KAWAMURA NOBUO (JP)  
EC:

Applicant:  
IPC: **G06F12/16; G06F17/30; G06F12/00** (+3)

Publication info: **US2006248125** - 2006-11-02

### 16 PORTABLE DATA STORAGE DEVICE FOR PERFORMING DATA BACKUP FUNCTION

Inventor: SONG WOO SEOK (KR)  
EC:

Applicant: POINCHIPS CO LTD (KR)  
IPC: **G06F1/00; G06F1/00**; (IPC1-7): G06F1/00

Publication info: **KR20050078027** - 2005-08-04

### 17 PORTABLE MEMORY CARD BACKUP DEVICE, SPECIALLY CONCERNED WITH BACKING UP DATA RECORDED IN A MEMORY CARD TO A DISK SUCH AS A CD OR A DVD

Inventor: LIM JUN KYU  
EC:

Applicant: LIM JUN KYU  
IPC: **G11B20/04; G11B20/04**; (IPC1-7): G11B20/04

Publication info: **KR20050018264** - 2005-02-23

### 18 BACKUP SYSTEM AND BACKUP METHOD FOR RESTORING FILE TO VERSION OF SPECIFIED DATE/TIME, AND PROGRAM FOR CAUSING COMPUTER TO EXECUTE METHOD

Inventor: KURAHASHI HIROSHI; NAKAJIMA SHU; (+1)  
EC:

Applicant: IBM JAPAN  
IPC: **G06F12/00; G06F12/00**

Publication info: **JP2006277563** - 2006-10-12

### 19 PRINTER, BACKUP METHOD, PROGRAM AND STORAGE MEDIUM

Inventor: MOROZUMI HIDEKI; SAKUTA KENJI  
EC:

Applicant: SEIKO EPSON CORP  
IPC: **B41J5/30; B41J29/42; G06F3/06** (+9)

Publication info: **JP2006272788** - 2006-10-12

### 20 PATH SWITCHING SYSTEM AND METHOD FOR BACKUP SYSTEM

Inventor: USAMI KAZUHIRO

Applicant: HITACHI COMP PERIPHERALS CO

EC:

IPC: **G06F13/14; G06F3/06; G06F13/00** (+3)

Publication info: **JP2006277355** - 2006-10-12

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### 21 BACKUP SYSTEM, PROGRAM, BACKUP SERVER AND BACKUP METHOD

Inventor: MISHIMA HIROSHI; MATSUO TOMOKAZU;  
(+7)  
EC:

Applicant: CHUGOKU ELECTRIC POWER; EN COMM INC  
IPC: **G06F12/00; G06F21/24; G06F12/00** (+1)

Publication info: **JP2006268364** - 2006-10-05

### 22 Data backup and transfer system, method and computer program product

Inventor: FIDUCCI THOMAS E (US)  
EC:

Applicant:  
IPC: **G06F15/177; G06F15/16**

Publication info: **US2006242273** - 2006-10-26

### 23 ELECTRONIC DOCUMENT BACKUP/RECOVERY DEVICE AND METHOD THEREOF

Inventor: JUNG YUN GYEONG (KR); LIM YEONG SUK  
(KR)  
EC:

Applicant: KOREA TELECOMMUNICATION (KR)  
IPC: **G06F17/40; G06F17/40; (IPC1-7): G06F17/40**

Publication info: **KR20010064801** - 2001-07-11

### 24 BACKUP CONTROL METHOD FOR IMAGE FORMING DEVICE

Inventor: KIMURA SHINICHI  
EC:

Applicant: KYOCERA MITA CORP  
IPC: **G06F3/12; B41J29/38; H04N1/21** (+3)

Publication info: **JP2006252054** - 2006-09-21

### 25 COMPUTER SYSTEM AND BACKUP METHOD FOR DATA IN COMPUTER SYSTEM

Inventor: NAKANO TAKAHIRO; NAKATANI YOJI; (+2)  
EC: **G06F11/14A4B1M6**

Applicant: HITACHI LTD  
IPC: **G06F21/24; G06F12/00; G06F21/00** (+1)

Publication info: **JP2006251936** - 2006-09-21

### 26 Backup/recovery system and methods regarding the same

Inventor: WU SWORD (CN); YAN TREE (CN)  
EC:

Applicant: FAR STONE TECH INC  
IPC: **G06F9/455; G06F9/455**

Publication info: **US2006217952** - 2006-09-28

### 27 Threat event-driven backup

Inventor: CARTER-SCHWENDLER CARL M (US);  
KRAMER MICHAEL (US)  
EC:

Applicant: MICROSOFT CORP (US)  
IPC: **G06F11/00; G06F11/00**

Publication info: **US2006218439** - 2006-09-28

### 28 Non-volatile backup for data cache

Inventor: ACTON JOHN D (US); LEE WHAY S (US)  
EC:

Applicant:  
IPC: **G06F12/00; G06F12/00**

Publication info: **US2006212644** - 2006-09-21

### 29 Method for auto backup

Inventor: CHOU PING-HSIANG (TW)  
EC:

Applicant: MITAC INT CORP (TW)  
IPC: **G06F12/16; G06F12/16; (IPC1-7): G06F12/16**

Publication info: **TW240168B** - 2005-09-21

### 30 SYSTEM FOR DIRECT PEER TO PEER DISTRIBUTED NETWORK USING WEB SHARED BACKUP STORING DEVICE

**Inventor:** HONG JONG CHEOL (KR); KIM JAE HYEONG   **Applicant:** BIZMODELINE CO LTD (KR)  
(KR); (+2)

**EC:**

**IPC:** *G06F15/00*; *G06F15/00*; (IPC1-7): G06F15/00

**Publication info:** **KR20020046410** - 2002-06-21

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### 31 DEVICE AND METHOD FOR BACKUP/RECOVERY WITHOUT PROCESSING LOG ON MMDB

Inventor: CHOI MI SEON (KR); CHOI WAN (KR); (+5) Applicant: KOREA ELECTRONICS TELECOMM (KR)

EC: IPC: **G06F12/16; G06F12/16; (IPC1-7): G06F12/16**

Publication info: **KR20020047601** - 2002-06-22

### 32 Universal serial bus backup device

Inventor: CHIH YUNG-CHAO (TW)

Applicant:

EC:

IPC: **G06F11/00; G06F11/00**

Publication info: **US2006206759** - 2006-09-14

### 33 System and method for computer backup and recovery using incremental file-based updates applied to an image of a storage device

Inventor: LEVY ITZHAK (US); OLIVA DARIO (US); (+1) Applicant: ARCO COMP PRODUCTS LLC

EC: IPC: **G06F12/16; G06F12/16**

Publication info: **US2006200639** - 2006-09-07

### 34 Mapping driver for use in data backup systems

Inventor: BROMLEY GRAHAM (US); WU WEIBAO (US) Applicant: VERITAS OPERATING CORP (US)

EC: IPC: **G06F12/00; G06F7/00; G06F17/30 (+3)**

Publication info: **US7099900** - 2006-08-29

### 35 Automatic backup and recovery device for computer system and implementation method thereof

Inventor: ZHANG PINGSHUN (CN)

Applicant: ZHANG PINGSHUN (CN)

EC: IPC: **G06F11/14; G06F11/14**

Publication info: **CN1808393** - 2006-07-26

### 36 Disaster recovery and backup using virtual machines

Inventor: VAN RIETSCHOTE HANS F (US)

Applicant: VERITAS OPERATING CORP (US)

EC: IPC: **G06F12/00; G06F12/00**

Publication info: **US7093086** - 2006-08-15

### 37 Storage system, backup system, and backup method

Inventor: IDO TAKESHI (JP); URABE KIICHIRO (JP) Applicant:

EC: IPC: **G06F3/06; G06F15/16; G06F12/00 (+3)**

Publication info: **US2006179122** - 2006-08-10

### 38 BACKUP MANAGEMENT DEVICE, BACKUP MANAGEMENT METHOD, COMPUTER PROGRAM, RECORDING MEDIUM, INTEGRATED CIRCUIT, AND BACKUP SYSTEM

Inventor: FUJIOKA SOICHIRO (JP); HARADA SHUNJI (JP); (+4)

Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP); FUJIOKA SOICHIRO (JP); (+5)

EC: IPC: **G06F21/24; G06Q50/00; H04L9/32 (+3)**

Publication info: **WO2006080510** - 2006-08-03

### 39 AUTOMATIC DATA BACKUP SYSTEM

Inventor: MARUOKA SHINJI

Applicant: HITACHI LTD

EC: IPC: **G06F12/00; G06F3/06; G06F12/00 (+1)**

Publication info: **JP2006178551** - 2006-07-06

### 40 DATA BACKUP SYSTEM AND IMAGE FORMING APPARATUS

Inventor: OGURI SATOSHI; YOSHIDA TOSHINOBU; (+2) Applicant: KYOCERA MITA CORP

EC:

IPC: **G06F12/00; G06F3/12; H04N1/00** (+5)

Publication info: **JP2006127310** - 2006-05-18

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## RESULT LIST

Approximately **638** results found in the Worldwide database for:  
**backup** in the title AND **storage device** in the title or abstract  
Only the first **500** results are displayed.  
(Results are sorted by date of upload in database)

### 41 IMAGE PROCESSOR, BACKUP SERVER DEVICE, AND PROGRAM

Inventor: KOMATA SHINGO

Applicant: CASIO COMPUTER CO LTD

EC:

IPC: **G06F13/00; G06F12/00; G06F15/00** (+7)

Publication info: **JP2006127003** - 2006-05-18

### 42 Backup/recovery system and methods regarding the same

Inventor: WANG GEORGE (CN); YOUNG YI M (CN)

Applicant: FARSTONE TECH INC

EC:

IPC: **G06F12/16; G06F12/16**

Publication info: **US2006161748** - 2006-07-20

### 43 Method and system for backup data access through standard network file sharing protocols

Inventor: SIKHA SRIDHAR (US)

Applicant:

EC:

IPC: **G06F12/14; G06F7/00; G06F7/00** (+1)

Publication info: **US2006149889** - 2006-07-06

### 44 PRINTER, DATA BACKUP METHOD, DATA FILE GENERATION METHOD AND PROGRAM

Inventor: FURUHASHI RYUSUKE

Applicant: SONY CORP

EC:

IPC: **B41J5/30; G06F3/12; G06F12/00** (+3)

Publication info: **JP2006137005** - 2006-06-01

### 45 BACKUP METHOD AND SYSTEM FOR OPERATION AND MAINTENANCE CENTERS OF A TELECOMMUNICATION SYSTEM USING STORAGE BASED ACTIVITY DETECTION

Inventor: BAUM MICHAEL (DE)

Applicant: SIEMENS AG (DE); BAUM MICHAEL (DE)

EC:

IPC: **G06F11/20; G06F11/20**

Publication info: **WO2006069891** - 2006-07-06

### 46 Information processing apparatus, information equipment, information processing system, automatic backup method, data transmission and reception method, automatic backup program, data transmission and reception program, and record medium having the p...

Inventor: SHIGETA DAISUKI (JP); UNO HIROSHI (JP); Applicant: SHARP KK (JP)

(+1)

EC:

IPC: **G06F11/14; G06F9/46; G06F9/46** (+1)

Publication info: **EP1674998** - 2006-06-28

### 47 Data backup method for a communication apparatus

Inventor: WOLDEAB JERRY MUSE (DE); TAUTGES INGO (DE); (+3) Applicant: WOLDEAB JERRY MUSE (DE); TAUTGES INGO (DE); (+1)

EC:

IPC: **G06F11/14; H04Q7/32; G06F11/14** (+1)

Publication info: **EP1667021** - 2006-06-07

### 48 Storage/backup device of wafer manufacturing equipment

Inventor: SHIE LI-LING (TW)

Applicant: WELLTECH SEMICONDUCTOR INC (TW)

EC:

IPC: **H01L21/02; H01L21/02; (IPC1-7): H01L21/02**

Publication info: **TW263615Y** - 2005-05-01

### 49 COMPUTER BACKUP SYSTEM OPERABLE IN OPENED STATE OF FILE

Inventor: MALCOLM PETER B

Applicant: CHEYENNE ADVANCED TECH LTD

EC: **G06F11/14A4B1M8**

IPC: **G06F12/00; G06F12/16; G06F3/06** (+7)

Publication info: **JP2006099784** - 2006-04-13

**50 One-touch backup system**

**Inventor:** POPELL ANDREW (US); BETTS-LACROIX  
JONATHAN (US)

**Applicant:**

**EC:**

**IPC:** *G06F11/00; G06F12/16; G06F11/00* (+1)

**Publication info:** **US2006085675** - 2006-04-20

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Approximately **638** results found in the Worldwide database for:  
**backup** in the title AND **storage device** in the title or abstract  
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(Results are sorted by date of upload in database)

### 51 System and method for providing a backup-restore solution for active-standby service management systems

Inventor: AMIDI ERFAN (US)

Applicant: SBC KNOWLEDGE VENTURES L P

EC:

IPC: **H04M3/08; H04M3/22; H04M3/08** (+1)

Publication info: **US2006078092** - 2006-04-13

### 52 Non-Volatile Memory Backup for Network Storage System

Inventor: SPIERS JOHN (US); LOFFREDO MARK (US); (+2) Applicant: LEFTHAND NETWORKS INC (US)

EC:

IPC: **G06F12/00; G06F12/00**

Publication info: **US2006080515** - 2006-04-13

### 53 RECORDING DEVICE AND BACKUP METHOD

Inventor: KITSUKA YOSHIHISA

Applicant: TOKYO SHIBAURA ELECTRIC CO

EC:

IPC: **G06F12/00; G11B20/10; G11B27/00** (+7)

Publication info: **JP2006085622** - 2006-03-30

### 54 Terminal device and data backup system for the same

Inventor: TSUNEKAWA TAKU (JP); SASAKI HIROSHI (JP); (+1) Applicant:

EC: H04L12/56B

IPC: **G06F15/16; G06F12/00; G06F12/00** (+1)

Publication info: **US2006069711** - 2006-03-30

### 55 Storage medium contents backup copy providing method, involves including file system with data files and administrative information on storage medium, where positive examination result is observed in structure

Inventor: SCHOENE-WARNEFELD AREND (DE); HARTMANN KLAUS (DE)

Applicant: FUJITSU SIEMENS COMPUTERS GMBH (DE)

EC:

IPC: **G06F11/00; G06F17/30; G06F11/00** (+1)

Publication info: **DE102004047315** - 2006-03-30

### 56 SYSTEM FOR SELECTING BACKUP STORAGE DEVICE

Inventor: HELLIKER FABRICE; CHAPPELL SIMON; (+1) Applicant: BACKBONE SOFTWARE INC

EC: G06F11/14A4B1

IPC: **G06F12/00; G06F11/14; G06F11/14** (+1)

Publication info: **JP2006053885** - 2006-02-23

### 57 Storage backup system for backing up data written to a primary storage device to multiple virtual mirrors using a reconciliation process that reflects the changing state of the primary storage device over time

Inventor: RAFERT JAMES LEE (US); MARTIN MARCIA R (US); (+1) Applicant: STORAGE TECHNOLOGY CORP (US)

EC:

IPC: **G06F12/16; G06F12/16**

Publication info: **US7007044** - 2006-02-28

### 58 Automatic backup method

Inventor: ZHOU BINGXIANG (CN)

Applicant: SHUNDA COMP FACTORY CO LTD SHU (CN)

EC:

IPC: **G06F11/20; G06F11/20**

Publication info: **CN1722099** - 2006-01-18

### 59 Apparatus, system, and method for differential backup using snapshot on-write data

Inventor: ADKINS JANET E (US); CHANG JOON (US); (+1) Applicant:

EC:

IPC: **G06F12/16; G06F12/16**

Publication info: **US2006041727** - 2006-02-23

**60 BACKUP STORAGE PROCESSING DEVICE, BACKUP STORAGE  
PROCESSING METHOD, BACKUP STORAGE PROCESSING  
PROGRAM, AND RECORDING MEDIUM**

Inventor: TAKAMUNE YOSHIFUMI; KASAI HIROAKI

Applicant: DAINIPPON PRINTING CO LTD

EC:

IPC: **G06F12/00; G06F3/06; G06F3/06 (+1)**

Publication info: **JP2006031152** - 2006-02-02

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## RESULT LIST

4 results found in the Worldwide database for:

**synchronous** in the title AND **files and storage** in the title or abstract

(Results are sorted by date of upload in database)

### 1 Method system and apparatus for synchronous update of files

Inventor: YANG LONGHE (CN)

Applicant: LANGKE SCIENCE TECHNOLOGY CO L (CN)

EC:

IPC: **G06F11/14; G06F11/14**; (IPC1-7): G06F11/14

Publication info: **CN1677355** - 2005-10-05

### 2 MP3 playback device having multi-file synchronous playing function and its method

Inventor: CHEN HUAIYAN (CN); DONG XIAOQIAN (CN); Applicant: WUDI TECH XIAN CO LTD (CN)

(+1)

EC:

IPC: **G11C7/16; G11C7/00**; (IPC1-7): G11C7/16

Publication info: **CN1564261** - 2005-01-12

### 3 COMPUTER SYSTEM, SYNCHRONOUS PROCESSING METHOD USED IN ITS SYSTEM, AND STORAGE MEDIUM

Inventor: MIZUHARA KUMIKO

Applicant: TOKYO SHIBAURA ELECTRIC CO

EC: H04L29/06; H04L29/06C5; (+3)

IPC: **G06F15/16; G06F9/445; G06F12/00** (+14)

Publication info: **JP11249973** - 1999-09-17

### 4 SECOND PROXIMATE COMMUNICATION NETWORK-SYSTEM AND METHOD FOR SYNCHRONOUS VECTOR-PROCESSOR

Inventor: JIMU CHIRUDAASU; PIITAA RAINETSUKU;

Applicant: TEXAS INSTRUMENTS INC

(+2)

EC: G06F15/80A1

IPC: **G06F9/28; G06F9/38; G06F15/16** (+20)

Publication info: **JP4036856** - 1992-02-06

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## RESULT LIST

3 results found in the Worldwide database for:

**synchronous** in the title AND **storage and backup** in the title or abstract

(Results are sorted by date of upload in database)

### 1 Synchronous replication for system and data security

Inventor: KISELEV OLEG (US)

Applicant: VERITAS OPERATING CORP (US)

EC:

IPC: **G06F12/14; G06F12/14**

Publication info: **US7149858** - 2006-12-12

### 2 Method system and apparatus for synchronous update of files

Inventor: YANG LONGHE (CN)

Applicant: LANGKE SCIENCE TECHNOLOGY CO L (CN)

EC:

IPC: **G06F11/14; G06F11/14**; (IPC1-7): G06F11/14

Publication info: **CN1677355** - 2005-10-05

### 3 Information processing apparatus including synchronous storage having backup registers for storing the latest sets of information to enable state restoration after interruption

Inventor: NAGASHIMA TETSURO (JP); KAWANISHI

Applicant: FUJITSU LTD (JP)

TOSHIHARU (JP); (+3)

EC: G06F11/14A2M

IPC: **G06F12/16; G06F11/14; G06F11/22** (+7)

Publication info: **US5701436** - 1997-12-23

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